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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/864,783

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EXAMINER

BROWN, RUEBEN M

ART UNIT

PAPER NUMBER

2424

NOTIFICATION DATE

DELIVERY MODE

12/10/2010

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No. 09/864,783	Applicant(s) LAKSONO, INDRA	
	Examiner REUBEN M. BROWN	Art Unit 2424	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 September 2010.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3,5-11,13-15,42-48,50-52 and 54-56 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3,5-11,13-15,42-48,50-52 and 54-56 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-3, 5, 8-11, 13-14, 42-46, 50-52 & 54-55 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schaffner, (U.S. Pat # 6,104,908), in view of Paul, (U.S. Pat # 6,381,745) and Foster, (U.S. Pat # 7,675,876) and Wang, (U.S. PG-PUB 2001/0013131).

Considering claims 1 & 42, Schaffner teaches a system wherein a local distribution system 14, receives a plurality of media signals from a plurality of different sources and

Art Unit: 2424

provides them as a multiplexed data stream to a plurality of dwellings 12, see Fig. 1; col. 3, lines 21-45; col. 4, lines 1-45. The local distribution system 14 receives regular VHF/UHF broadcast channels via antenna 18, as well as satellite TV channels, via dish 16. The diplexer 24, within the local distribution system 14 receives signals from transmodulators 22 & 26, and combines them to be transmitted to the plurality of dwellings 12.

The amended claimed, *'method for isolating a channel of interest from a set of channels from a plurality of multimedia sources that include a video network in a multimedia system that includes a multimedia server that is coupled to the plurality of multimedia sources'*, reads on the disclosure of Schaffner. In particular, the user selects a desired programming from the plurality of sources that are available and the associated programming is delivered to the dwelling 12, wherein the particular channel is tuned by the diplexer 28, see col. 4, lines 32-51.

As for the additionally claimed *'local media player, such that at least one of the set of channels includes data from the local media player'*, Schaffner discloses that at least one of the sources other than the satellite signal, may be any other suitable source, (col. 3, lines 64-67) but does not explicitly cite that the source could be from a local device.

Nevertheless Paul, which is in the same field of local video distribution as Schaffner, provides a teaching of a video content from a VCR 172 being modulated and combined with a plurality of exterior signals to be transmitted to a user, see col. 4, lines 20-42; col. 5, lines 10-28. It would have been obvious for one of ordinary skill in the art at the time the invention was

Art Unit: 2424

made, to modify Schaffner with the feature of providing locally stored video programming on a system, as taught by Paul, at least for the desirable of advantage of providing the user with a wider variety of available programs, since the user may want allow multiple terminals to retrieve video programming from a single VCR, which adds to the convenience of the system.

'receiving the set of channels as a stream of data', reads on the disclosure of Schaffner that the video programming from the different sources are multiplexed together.

'interpreting segments of the stream of data to identify data of the channel of interest',; and *'interpreting the data of the channel of interest to determine the type of data'* is also met by the disclosure Foster which teaches a broadcast stream comprising one or TV channels and/or one or more programs that are time division multiplexed together, such that that the packets of the different types of data are identified by a the details of the header, which is used by the receiver to differentiate and select the particular channel/program of interest, see Abstract; col. 3, lines 15-51; col. 4, lines 29-55; col. 5, lines 10-25. The system of Foster user the PMT & PAT technology to index and identify which particular stream within a transport stream should be selected, based on the selection of the subscriber, see col. 5, lines 37-62; col. 7,lines 55-67; col. 8,lines 55-67; col. 9, lines 1-20. It would have been obvious for one of ordinary skill in the art at the time the invention was made, to modify the combination of Schaffner & Paul with the teachings of Foster, including selecting a channel of interest from a time division multiplexed stream of channels, based on its type for the desirable purpose of ensuring that the correct desired program/channel is selected, as taught by Foster.

'processing the data of the channel of interest based on the type of data to produce processed data' and *'providing the processed data for display'* reads on the discussion Schaffner that the satellite channels receive further processing by the MDU-IRD 32, whereas the local TV channels, i.e. at least UHF/VHF are directly transmitted to the TV 40, see col. 4, lines 51-67.

As for the additional claimed feature of, *'converting the data of the channel of interest to at least one of RGB and YUV'*, the above references do not teach this feature. However, Wang provides a teaching, wherein decoded MPEG data is converted to RGB format, Para [0036]. It would have been obvious for one of ordinary skill in the art at the time the invention was made, to modify the combination of references to convert decoded MPEG data to RGB format, at least so that it may be displayed in an RGB format display device, as taught by Wang.

Regarding claim 42, Wang also discusses decoding received data, based on whether it is audio (PCM) type data, see Para [0022, 0037].

Considering claims 2-3, 10-11, 13, 43-44, 51-52 & 54, Schaffner teaches that the receiver may determine the selected programming by recovering the desired signal, but does not discuss the details of a stream. However, Foster teaches locating programs/channels within a transport, by using the header/PID, col. 3, lines 25-55; col. 4, lines 56-66; col 6, lines 1-10; col. 7, lines 55-67; . It would have been obvious for one of ordinary skill in the art at the time the invention was made, to modify Schaffner to locate items(s) based on the header/PID, as taught by Wang for the

Art Unit: 2424

improvement of being sure that appropriate item(s) is selected. Also see Wang, [0036-0038] and Foster, col. 5, lines 10-21; col. 9, lines 61-67 thru col. 10, lines 1-16.

Considering claim 5, the subject matter is met by Wang, [0036].

Considering claims 8-9 & 50, Wang, Para [0022, 0035, 0037] meets the subject matter.

Considering claims 14 & 55, the subject matter is met by diplexer 28 & demodulator 30 of Schaffner, col. 4, lines 32-51

Considering claims 45-46, the recited subject matter is met by the combination of Foster & Wang.

4. Claims 6, 7, 47 & 48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schaffner, Paul, Foster & Wang, further in view of Leone, (U.S. Pat # 6,901,153).

Considering claims 6 & 47, Schaffner does not discuss the claimed feature of 'Huffman decoding' or 'de-zigzagging the Huffman decoded data to produce the de-zz data' and 'de-quantizing the de-zz data to produce de-Q data'. However, Leone which is in the same field of endeavor of decoding compressed MPEG data, teaches Huffman decoded video data, which is de-zigzagged and de-quantized, see col. 2, lines 25-36. It would have been obvious for one ordinary skill in the art at the time the invention was made, to modify Hamlin with the feature of

Art Unit: 2424

Huffman decoding, de-zigzagging and de-quantizing video data, for the improvement of providing a more precisely processed video stream, as taught by Leone. Leone specifically teaches that de-quantizing the data and de-zigzagging the data, removes the diagonal pixel ordering used by the MPEG to improve the run length processing.

Leone also teaches the claimed, ‘performing IDCT upon the de-Q data’ and ‘motion compensation and scaling’, see col. 2, lines 30-38 & col. 2, lines 60-67.

Considering claims 7 & 48, Leone teaches converting the YUV to RGB data, see col. 2, lines 50-67.

5. Claims 15 & 56 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schaffner, Paul, Foster & Wang, further in view of Tsuge, (U.S. Pat # 5,995,709).

Considering claims 15 & 56, even though Schaffner teaches decoding a video stream, the reference does not teach specifics of at least one of: multilevel coding/decoding, non-return-to-zero coding/decoding, block coding/decoding, and nB/m coding/decoding of data streams. However Tsuge, which is in the same field of endeavor, provides a teaching of non-return to zero (NRZ) conversion, Abstract; col. 7, lines 41-67 thru col. 8, lines 1-21. Tsuge is particularly compatible with the Foster, which includes an MPEG demux 102 and decoder 108 (Fig. 1) for decoding an MPEG stream; since Tsuge is also directed to decoding data included in an MPEG

Art Unit: 2424

data stream, (NRZ modulated pixel data, which may contain closed caption data), see col. 2, lines 1-25. It would have been obvious for one ordinary skill in the art at the time the invention was made, to modify Schaffner with the features of non-return to zero coding/decoding, at least for the desirable advantage of transmitting text code as NRZ modulated signals, as taught Tsuge, col. 1, lines 15-55.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- A) Mann Teaches decoding a time multiplexed MPEG stream.
- B) Wasilewski Teaches using PMT & PAT technology to decode particular MPEG programs and/or channels.
- C) Nally Teaches converting MPEG to YUV/RGB format, col. 3, lines 40-61.

Art Unit: 2424

Any response to this action should be mailed to:

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or faxed to:

(571) 273-8300, (for formal communications intended for entry)

Or:

(571) 273-7290 (for informal or draft communications, please label
"PROPOSED" or "DRAFT")

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Reuben M. Brown whose telephone number is (571) 272-7290. The examiner can normally be reached on M-F (9:00-6:00), First Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Kelley can be reached on (571) 272-7331. The fax phone numbers for the organization where this application or proceeding is assigned is (571) 273-8300 for regular communications and After Final communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Reuben M. Brown/
Patent Examiner, Art Unit 2424